

ABSTRACT OF DISCLOSURE

A printed circuit board integrated with a two-axis fluxgate sensor includes a first soft magnetic core formed lengthwise in a first axial direction, a first excitation coil formed of a metal film and wound around the first soft magnetic core, a first pick-up coil formed of a metal film and wound around the first soft magnetic core and the first excitation coil, a second soft magnetic core formed lengthwise in a second axial direction, the second axial direction being perpendicular to the first axial direction, a second excitation coil formed of a metal film and wound around the second soft magnetic core, a second pick-up coil formed of a metal film and wound around the second soft magnetic core and the second excitation coil, and a pad for establishing conductivity between the first and second excitation coils and the first and second pick-up coils and an external circuit.